

What we claim is:

1. A composition of matter comprising Pseudomonas aeruginosa strain CHL004 growing on a solid matrix wherein said matrix is in an environment in the presence of sufficient phosphate to provide at least one stoichiometric equivalent amount of phosphate to lead.
 2. A composition of claim 1 wherein the support is a synthetic polymer.
 3. A composition of claim 11 wherein the support is activated carbon.
 4. A composition of matter comprising Pseudomonas aeruginosa strain CHL004 growing on a solid matrix wherein said matrix also contains iron.
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5. A composition of claim 4 in an environment containing arsenic.
 6. A composition of claim 4 in an environment containing cadmium.
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